



CHAMPIONSHIP FOOTBALL GAME BETWEEN THE TECH AND VOO DOO ENDS 0 TO 0

PUBLICATIONS TIE IN BATTLE FOR PI DELTA EPSILON CUP

Hard Fought Game Featured By Line Plunges and End Runs by Backs

DELAY IN STARTING GAME

Playing for the championship of Technology's undergraduate publications THE TECH'S football team tied with Voo Doo, the game ending with neither team being able to score a point. This was a disappointment to many as the new Phi Delta Epsilon silver loving cup was to be awarded the winner.

For the first time the winners of the annual Voo Doo-T. E. N. and THE TECH-Technique games fought for the honor of winning the championship and the new cup. The game was played on Tech field last Wednesday afternoon and due to a preliminary game between two outside schools the (Continued on Page 4)

Officer of Peace Council to Speak

With the London Naval Conference only a month away, Frederick J. Libby, Secretary of the National Council for Prevention of War, will speak to the members and guests of the M. I. T. Liberal Club tomorrow afternoon at 4 o'clock in Room 4-270.

The topic of discussion for the afternoon's talk and discussion will be, "The Problems Facing the London Naval Conference," and all members of the faculty and student body are invited by the Liberal Club to attend the meeting.

Long identified with peace movements of all kinds, Frederick J. Libby has had, as Secretary of the National Council, a special opportunity to investigate the leading disarmament and peace movements of recent times.

In view of the important events of the past months which will probably influence the outcome of the London Conference, it is expected that the speaker of the afternoon will deal extensively with at least two of these recent peace movements, the visit of Ramsey MacDonald, British Premier, to President Hoover, and the Armistice Day Address given by President Hoover to the American people.

VARSITY BOOTERS TIE FRESHMEN IN LAST GAME 2 TO 2

Freshmen Lead to Last Period —Heavy Wind Prevents Long Shots

BOTH TEAMS PLAY SHORT

In their last game of the season, the Varsity soccer team tied the freshmen 2 to 2 last Saturday afternoon on the Coop Field, after trailing the yearlings into the second half. Due to the fact that several members of both teams failed to appear, the game was played with eight men on a side. A heavy west wind kept the ball on the east side of the field, and made the forwards' shots inaccurate, but in spite of the inclement weather both teams played a good game, the frosh leading up to the last few minutes of play.

Freshmen Score

In the first period the yearlings seemed to have the ball most of the time, and their forwards made several attempts at the net which were stopped by Ayres, playing goal for the Varsity. After about fifteen minutes of scrimmage, the yearlings were able to make the first score of the game, when Lovejoy sent the ball past Ayres into the net. Bateman, who was playing in the defense line for the frosh, played an excellent game, showing a great deal of ability. Cooper, who played opposite Bateman, also played a sterling game against the freshmen.

Frosh Lead 2-0

Scoring again in the second period, the freshmen led 2 to 0 at the half, when Flint, freshman forward, sent the ball into the goal for the second yearling score. The Varsity made several attempts this quarter for a score but they were successfully stopped by Mayer, who guarded the yearling goal.

Varsity Rallies

Rallying in the third, Fragiacoimo sent the ball by Mayer on a corner kick from Youngson for the first Varsity score. With the score 2 to 1, the quarter ended, neither team being able (Continued on Page 3)

DR. KENNELLY TO ADDRESS FACULTY

Harvard Professor of Electrical Engineering Speaks on Racing Records

Members of the M. I. T. Faculty will gather for a luncheon meeting Wednesday noon in the Faculty Dining Room of Walker. The speaker at this week's meeting will be Professor A. E. Kennelly, Sc.D., who will speak on the subject "World's Records of Racing."

Dr. Kennelly is at present Professor of Electrical Engineering and Director of Electrical Engineering Research at Harvard University, and he has had an unusually interesting and varied career. He was born in India, and educated in England and Scotland. At one time he was principal electrical assistant to Thomas A. Edison. He has been honored by many leading universities, is an exchange professor, and the recipient of numerous honors and awards. Dr. Kennelly has also served as a member of the M. I. T. faculty.

ALDRED LECTURES TO COMMENCE ON FRIDAY

Well-Known Architect Will Give First Address of Series

Mr. Ralph Adams Cram, well-known architect, will be the speaker at the first Aldred Lecture this fall, to be given Friday afternoon at 3 o'clock in 10-250. "The Building of a Great Cathedral" will be the subject of his illustrated address, which will deal with the design and construction of the Cathedral of St. John the Divine in New York City.

Mr. Cram is well known in architectural circles, not only for his work on the design of the cathedral, but for his supervision of the design of the buildings at Princeton University. He has also written many books on subjects relating to architecture, and is highly regarded as a speaker.

These lectures are open to Seniors, Graduates, and Officers of Instruction.

One-More-Day Petition In Need of Signatures

Technology students who desire another day at home during the Christmas vacation should sign the petition in the Main Lobby or the one in Walker Memorial at once. Thus far, only a few over a thousand signatures have been secured. In order to carry weight with the faculty the petition must have many more names than this, so if there are any men really interested, who have not yet signed, they should not neglect to do so. The petition must be presented to the Faculty by Wednesday of this week, in order to afford sufficient time for its consideration.

A. I. E. E. Holds Third Dinner of Series Thursday

Edison Representative to Speak On Electric Power Distribution

For the third time this year, the members of the Student Branch of the A. I. E. E. and all freshmen and Sophomores enrolled in electrical courses will meet at a dinner meeting to be held on Thursday evening at 6 o'clock in the North Hall of Walker. A fried chicken dinner will be served to those present.

Immediately following the dinner, the gathering will adjourn to the Main Hall, where Mr. Edward S. Mansfield '96, of the Edison Electric Illuminating Co. of Boston, will address the group on the subject of the opportunities offered the engineering graduate in the field of the generation and distribution of electric power. At the conclusion of the talk there will be shown a moving picture illustrating some of the typical projects in this field.

The meeting is expected to prove instructive to all interested in electrical engineering, and particularly to the members of the two lower classes, as it will give them an insight into the electrical work for which their training at the Institute is a preparation.

All men who plan to attend the meeting must secure a card of admission from any member of the executive committee or from Room 4-203 before Wednesday.

TICKETS FOR XMAS DANCE NOW ON SALE

Annual Concert of Musical Club Will Be Held Friday

Tickets for the annual Christmas Concert and Dance of the Combined Musical Clubs, which will be held on Friday evening at 8 o'clock at Longwood Towers, Brookline, are now on sale in the Main Lobby from 12 to 2 o'clock each day. The admission price is \$4 per couple and \$3 stag.

This concert, the finale of the pre-Christmas season, will be the first undergraduate appearance of the clubs this year. Each of the individual clubs will present a number of selections, and a specialty act is included, which it is hoped will prove entertaining. The complete program will appear in an early issue of THE TECH.

FRESHMEN ELECTED TO HONOR SOCIETY

Quadrangle Club Announces New Men Chosen as Members

Twenty members of the Class of 1933 were elected to the Quadrangle Club, the Sophomore-freshman honorary society, at a meeting held last Tuesday night at the Phi Gamma Delta House. Information as to the time of the initiation and further activities will be made public at a later date.

The following new members were elected: David L. Babcock, Walter C. Backus, Charles W. Ball, Charles C. Bell, Anton H. Brockelman, Thomas M. Chadwick, Charles V. Case, Jr., Edward L. Dame, Paul E. Davis, Jr., George W. Denison, Walter R. Duncan, Pierre S. du Pont, III, Samuel B. Farnum, Jr., Wilber B. Huston, William W. Laird, Jr., Herbert M. Larabee, Jr., David R. McGregor, Leland S. Person, John W. Regan, Jr., Robert M. Trimble.

ARTHUR WHITING BEGINS CONCERT SERIES TOMORROW

Corporation Arranges Fifth Series of Recitals By Noted Musician

STUDENT BODY INVITED Phases and Trends of Musical Thought and Development Illustrated

Mr. Arthur Whiting, one of the leading interpreters of modern music, will present a recital from the works of various music masters to the members of the Corporation, the Faculty, their families, and the students of Technology in Room 10-250 tomorrow evening at 8:15 o'clock. He will be assisted by four accompanying artists in presenting the concert which will be the first for this year. In co-operation with the Institute Mr. Whiting has already presented four series of concerts during the last four years. As in previous years the program is designed to illustrate certain phases and trends of musical thought and development, since the earliest period.

Flutist to Assist

George Barrere, one of the leading flute players of the country, will assist in the recital along with Miss Mariana Lowell, Violin; Miss Genieve Hughel, Violoncello; with Mr. Whiting at the Harpsichord. Mr. Whiting uses the harpsichord, a fifteenth century instrument, to better interpret Handel, Mozart and other composers.

Mr. Whiting is associated with the Chamber of Music in New York City and makes tours to various institutions throughout the country. Before coming to Technology he appeared at Yale University and from Technology (Continued on Page 4)

TECHNOLOGY REVIEW ON SALE TOMORROW

Research and Labor Problem Is Subject of Main Story

Technology Review for December will be on sale tomorrow in the Main Lobby and will be an unusually varied issue. "Research and Labor" is one of the main articles in the Review and in it Arthur D. Little '85 gives a general survey of the problems connected with employing men for research purposes. He tries to show how an effective cooperation and organization of the research work and the workers can be made to produce remarkable results.

Thomas Tallmadge '98 discusses the evolution of the American skyscraper and its effects on the architecture of the rest of the world. He gives an idea as to the future trend of large buildings in the article which is entitled "Terraces and Towers." James J. Roland, who is in charge of the news service at M. I. T., has contributed a story in which he shows how science has aided the newspaper world. He gives an idea of the work necessary in news communication and in setting up the paper made possible by scientific achievements. Alumni news, notes, and other articles complete the December number.

Telegraph Company Uses Class-to-Class Canvass

Competition is evidently keen between the two great telegraph companies. No sooner had one established a temporary station in the basement of Walker for the convenience of those who wished to send Thanksgiving telegrams home, than the other retaliated with a class-to-class solicitation.

Last Wednesday, as a certain young chemistry instructor was holding forth on the intricacies of the preparation of HC1, the door opened, and a young and uniformed employee of the rival company appeared. Removing his cap and coming to attention, he inquired, in a high-pitched voice, "Want to send a Thanksgiving message home?" On being given a negative answer, he retired in good order, followed by the blushes of the instructor and the roars of the class.

Invention of Coolidge Cathode Ray Tube Has Developed Many Sciences

Member of Institute Staff Aids Analyses in Chemistry and Physics

Dr. William D. Coolidge '96, former member of the Institute staff and now Assistant Director of the General Electric Laboratories at Schenectady is widely known for his experiments with cathode and roentgen rays. As the inventor of the Coolidge X-ray tube he has opened the way to further research in many sciences.

In seeking for a method to produce cathode rays behind the walls of glass Mr. Coolidge developed a bulb of a high vacuum, at one end of which he inserted an aluminum window. Though this very thin disk passed the rapidly moving particles or cathode rays and thus the first radiations of this nature were deliberately harnessed by man.

Rays Thrown Eighteen Inches

With this comparatively crude apparatus, operating under a potential of 250,000 volts and a current of several thousandths of an ampere, it was possible to project the rays a distance of about 18 inches from the tube, a feat which had never before been accomplished. Starting with the observation of the effects of the rays upon various crystals a new means of chemical and physical analysis was soon afforded by Dr. Coolidge. Microscopic examinations of different chemicals showed minute craters and canals which have since been identified as characteristic of certain substances. Extremely small quantities of an element can be detected by the characteristic spectrum produced, by the x-ray radiations.

Sensational Effects Produced

Striking effects of many kinds have been produced with the rays from Dr. Coolidge's tube. Placed in their

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UNORIGINAL SCIENTISTS

FROM the time of Aristotle down to the present day the problem of the scope of science has constantly troubled great thinkers. Who can tell where philosophy leaves off and where science begins? May the "social sciences" be truly termed sciences? Can the popularization of scientific principles be called a branch of scientific endeavor, or is it merely art in the literary sense? True science is restricted to extremely limited bounds.

Science exists to answer questions that are put forth by thinkers of a more imaginative turn of mind, according to the philosophers. Once the specific question is answered, the scientist then returns to his burrow and leaves it to the artist to discover its significance and apply it to life. Will Durant divides the process of addition of new thought to our lives into three stages.

Science seems always to advance, while philosophy seems always to lose ground. Every science begins as a philosophy and ends as an art; it arises in hypothesis and flows to achievement. Science is the captured territory; and behind it are those secure regions in which knowledge and art build our imperfect and marvelous world.

The belief that science asks its own questions is a fallacy. Philosophy takes this initiative, and makes conjectures. Scornful of this method, the scientist seeks the truth in his laboratory, and does not rest easy until he has satisfied himself that his task is ended. Here his imagination fails him, and he leaves others to apply his discovery to good or evil usage. The true scientist is not cognizant of good or evil; his problem is that of truth and falsity.

According to Mr. Durant's conception of science, all the great inventors, all the men who have applied science to make life worth while, are not scientists. They are artists, and the bases of their discoveries are taken from facts long since verified and abandoned by the unoriginal, plodding scientist.

SQUARE PEGS

"On broad lines and with necessary qualifications it can be said that there are four classes of college students who suffer most from the mass production methods which American colleges have necessarily adopted to fit their students for their places in a mass production world.

1. The true scholars—those who have a passion to go exploring in the world of ideas tracing down the lost, mislaid and undiscovered facts pertaining to some particular subjects.

2. The adventurers—those who long to be off to explore the material world in airplane, sailboats, and dog sleds, following the four winds and sitting beside each of the seven seas.

3. The artisans—those who are happiest when they are at work with their hands at tangible things in farms, forests, laboratories and workshops.

4. The artists—those who take joy in working with true colors, fragile harmonies and graceful lines, striving after perfection in the creative arts.

It is to these students that the institutional training furnished by our colleges may be particularly harmful."

SUCH is the statement of William T. Nichols in a recent Atlantic Monthly. Mr. Nichols is perhaps right when he says that these students suffer from mass production methods and find college an environment totally unsympathetic to them. It is apparent at once, however, that each of these classes in this day and age must have every tool at its fingertips if success is to be obtained. Could a lost fact be discovered without a deep knowledge of the known ones? Today's exploration trips are in reality gigantic laboratory experiments. Farming is a science, not a hay-making proposition exclusively.

Even the artists are dependent upon their tools if they are to measure with their contemporaries. All in all the present day methods of instruction are by far the best the educators have been able to produce. The next generation will perhaps acquire their "book learning" by methods too strange for us ever to conceive as possible.

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NOTICES - ANNOUNCEMENTS Of General Interest

Whiting Concert

Tuesday, December 3, 8:15 P. M.

The first Exposition of Classical and Modern Chamber Music for the 1929-1930 Season will be given by the following artists:

Mr. George Barrère, Flute
Miss Mariana Lowell, Violin
Miss Genieve Hughe, Violoncello
Mr. Arthur Whiting, Harpsichord

Faculty Club Luncheon Meeting Prof. A. E. Kennelly, Sc.D.

Tuesday, December 3, 12 M., Walker Memorial

Faculty Dining Room

Dr. Kennelly, Professor of Electrical Engineering and Director of Electrical Engineering Research at Harvard University, will speak on "World's Records of Racing."

Team Which Tied With Voo Doo in Battle for Pi Delta Epsilon Cup



THE TECH GRIDMEN

THE TECH-VOO DOO GAME ENDS IN TIE

Score Will Be Engraved on Cup—Which Will Remain On Exhibition

(Continued from page 1)
publication battle did not start until quite late.

THE TECH Kicks Off

The close proximity of Thanksgiving and the usual vacation-taking left the two teams with barely enough men to play. As it was however at 3 o'clock Captain Tul Houston's team kicked off to Voo Doo and the gridiron classic was on. Voo Doo immediately started down the field but lost the ball on downs. Upon taking the offensive THE TECH opened up an aerial attack that proved very unsuccessful.

On the last down when an uncompleted forward pass went over the goal line it was returned to the twenty-

yard line in the possession of Voo Doo. By playing straight football and driving through the center of the line several first downs were made before the representatives of Phosphorus were forced to punt.

Half Ends Scoreless

Through the line drives of Huston and Kamy and the end runs of Smith and Roddy the newsmen brought the ball well into the opposing territory before losing it. The first half ended thus with the score 0-0 and the ball in the middle of the field.

Upon returning to play the second half Voo Doo kicked off and Worden received the punt and ran it back for twenty-five yards. THE TECH started a concentrated drive down the field and seemed to be on the verge of making a touchdown but several consecutive fumbles lost the ball and Voo Doo started in.

Voo Doo threatened several times to score by making long runs but never did they come closer than the thirty-yard line. Let by Dickinson, Voo Doo back, the team made several large gains by ploughing through the middle of the TECH line. When it came to the point where either team threatened to score the opposing line held and the resulting score was 0-0.

Voo Doo Threatened

During the closing minutes of the game it looked as though Voo Doo would score since they made almost forty-yards on two or three plays. However, before they were able to get closer than the thirty-yard line, time was called and the game ended.

Since neither team won the game the tie score will be engraved on the Pi Delta Epsilon cup and neither publication will have the honor of keeping it in its possession for the coming year. However the cup will probably be placed in the show case on the second floor of Walker Memorial for exhibition.

Due to the delay in starting the time was cut down to four eight minute quarters instead of four ten minute quarters as originally planned. As it was the game nearly ended in darkness.

The line-ups of the two teams were as follows:

| | |
|---------------|----------------|
| Voo Doo | THE TECH |
| Carr, fb | fb, Kamy |
| Dickinson, qb | qb, Roddy |
| Teague, hb | hb, Houston |
| Anderson, hb | hb, Smith |
| Burr, re | re, Davis |
| Holden, rt | rt, Barker |
| Osterman, rg | rg, Fahnestock |
| Jarosh, c | c, Verveer |
| Burdick, lg | lg, Harmon |
| Harper, lt | lt, Worden |
| Fodge, le | le, Truax |

Substitutes Voo Doo—Dwight, Sibley, and Park. THE TECH—Fleming and Holst. Referee, Pattison. Headlinesman, Ladd.

CROSS COUNTRY TEAMS

All members of both Varsity and freshman Cross Country teams are requested to report to Room 11-004, in the Homberg Infirmary basement, Monday, December 9, at 5 o'clock, for group pictures. Election of captain for next year's varsity team will be held at this time. Please bring uniforms.

FIRST OF WHITING CONCERTS PLANNED

Regular Series Given Each Year at the Institute to Commence

(Continued from page 1)
he will proceed to other institutions such as Harvard, Dartmouth and others.

About five of these concerts will be given this year and will come at intervals of about one month. The second recital at Technology is to be held Tuesday, January 7 at the same hour. The others will be announced later.

Tomorrow night's concert consists of the following musical numbers: (Flute, Violin, Violoncello, Harpsichord)

Purcell, 1658-1695

Golden Sonata, F Major
1. Largo-Allegro.
2. Adagio-Allegro.
(Harpsichord)

Bach, 1685-1750

...Prelude and Invention, C major
...Polonaise, G major

Handel, 1685-1759

...Air and Variations, E major

"The Harmonious Blacksmith"

Mozart, 1756-1791

Alla Turca

(Flute)

Gluck, 1714-1787

Airs and Dances from "Armide",

"Iphigenie en Aulide"—"Orfeo"

(Violoncello)

Locatelli, 1693-1764

Sonata, G, major

1. Allegro.

2. Adagio

Minuetto

(Flute, Violin, Violoncello, Harpsichord)

F. Couperin, 1688-1733

Concerts Royaux

1. Musette.

2. Sarabande.

3. Forlane en Rondeau.

Rameau, 1683-1764

1. Menuet.

2. L'Indis crete.

3. Tambourin.

WESTERN STUDENTS PLAN SPECIAL CAR

Leaves Boston at 3:00 P. M.

Arriving in Chicago At 2:15 P. M.

An All-Technology Pullman leaving North Station at 3 o'clock, Friday, December 20 has been secured for the benefit of students who live in the Middle West, especially those living in Detroit and Chicago. This is adopted in the nature of an experiment this year, and if it is successful, an All-Technology Pullman for the Western students will become an annual event at Technology.

Through the courtesy of the Boston and Maine Railroad it is possible to secure reservations and tickets for this special car by signing up in the T. C. A. office. Plans are being developed for the establishment of a regular Travel Bureau at the Institute where students may make reservations for any point in the United States, but it is not likely that this will be done this year.

It will be possible to secure reservations and tickets for all other points reached by the Boston and Maine Railroad by leaving your requests in the T. C. A. office. Plans are being developed for the establishment of a regular Travel Bureau at the Institute where students may make reservations for any point in the United States, but it is not likely that this will be done this year.

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WRESTLING

There will be a meeting of all the varsity candidates for wrestling Wednesday at five o'clock in the Hangar gym. It is very important that all the candidates be present.

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CROSS COUNTRY TEAMS

HARVARD DEFAULTS CHESS TEAM MATCH

Harvard, champions of the Metropolitan Chess League, defaulted to the Technology chess team by their non-appearance to play the match which was scheduled for Friday, November 29, at 8:30 o'clock in the East Lounge of the Walker Memorial Building. The members of the Institute team sat about and played one another the entire evening waiting for their opponents to appear. This match, if it is to be played, will take place some time in January.

MEN IN M. I. T. INFIRMARY

Friday Nov. 29
Barker, William H. '32
Bolanos, Juan J. '31
Butters, Harold A. Jr., '33
Merrill, James A. '30
Pickell, James M. '30
Serrano, Ricardo E. '33
At Brooks Hospital:
Nolph, James G. Jr. '33
At Homeopathic Hospital:
Huston, Wilber B. '33

Dana College with an enrollment of less than 100 students sent a choir on a European concert tour last year.

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